

FIG. 1  
(PRIOR ART)

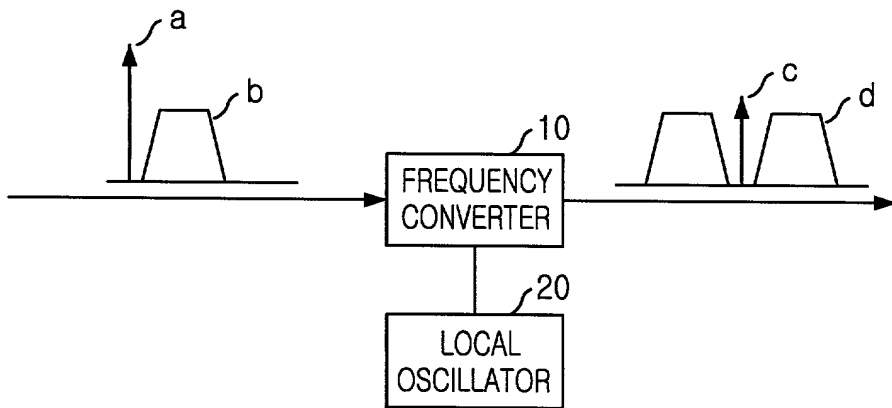


FIG. 2  
(PRIOR ART)

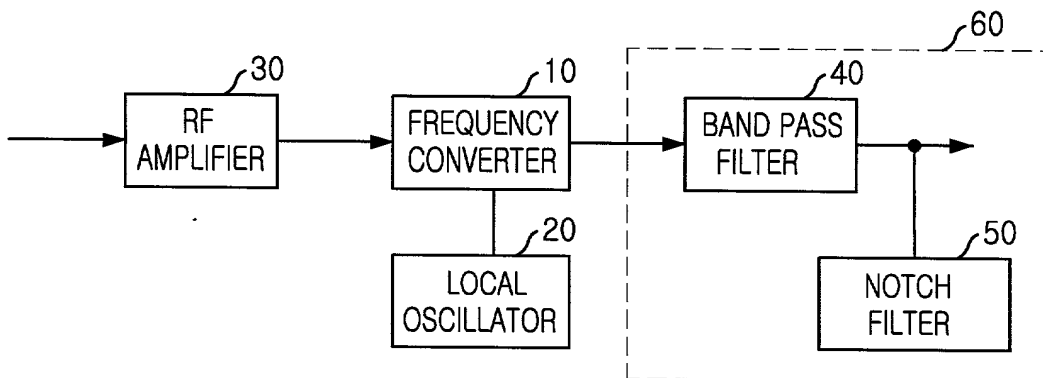


FIG. 3

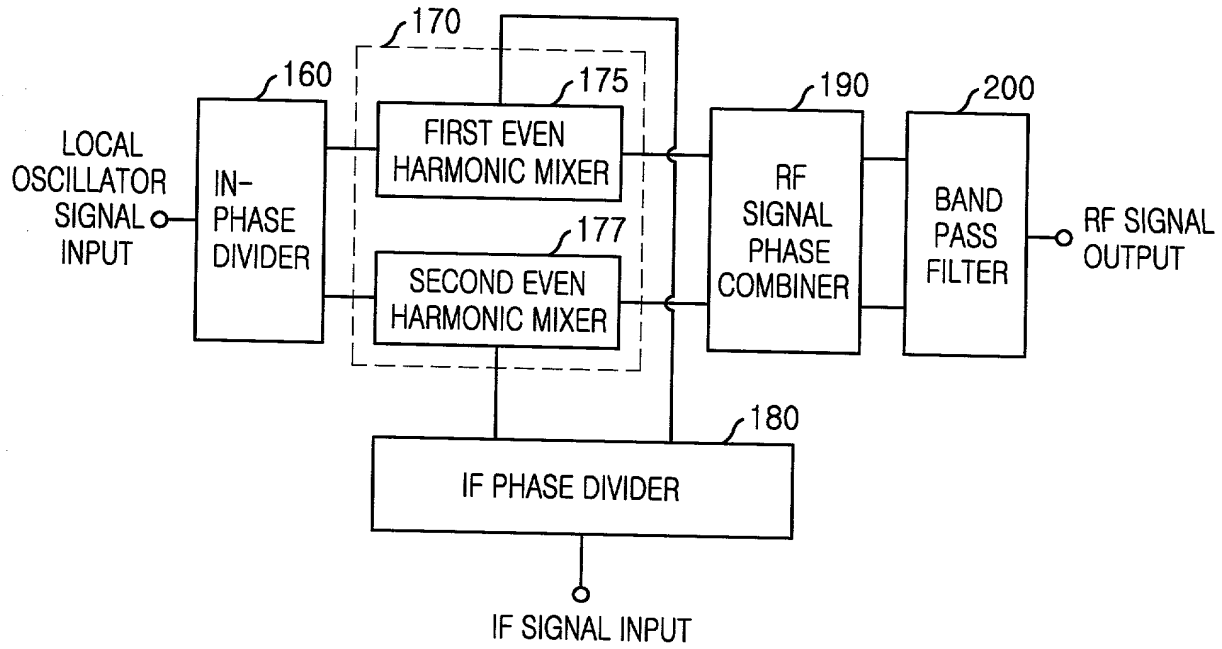


FIG. 4

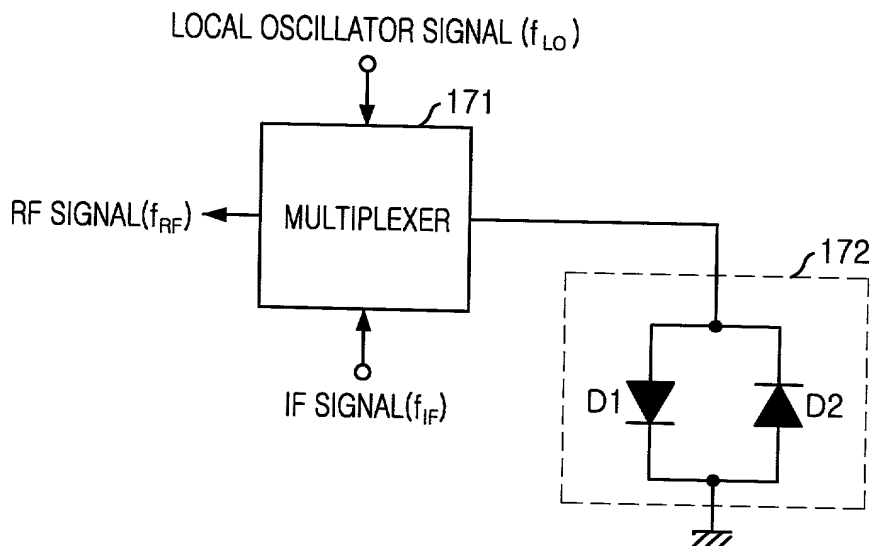


FIG. 5

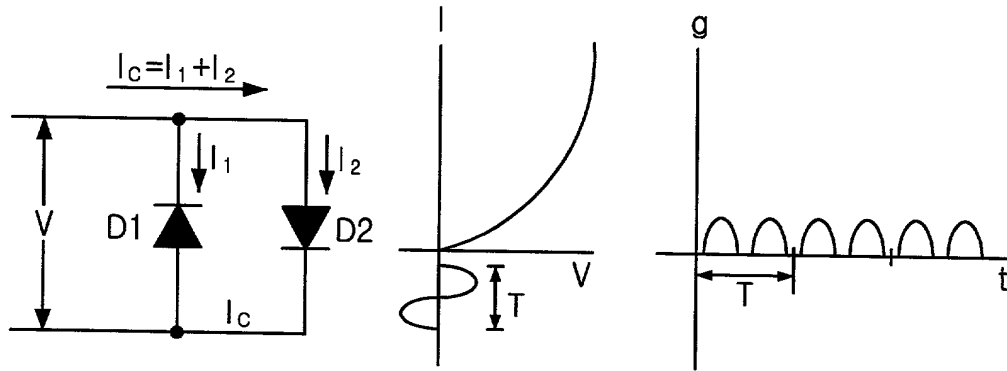


FIG. 6

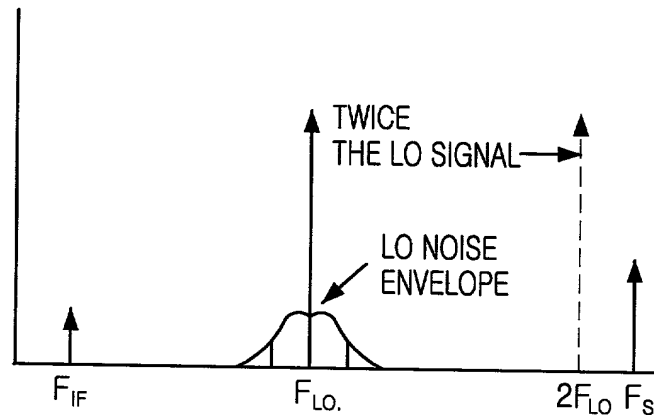


FIG. 7

UP-CONVERTING PHASE CORRELATION

|                            | IF | 2LO | 2LO+IF | 2LO-IF | USB | LSB |
|----------------------------|----|-----|--------|--------|-----|-----|
| FIRST EVEN HARMONIC MIXER  | 0  | 0   | 0      | 0      | 90  | 90  |
| SECOND EVEN HARMONIC MIXER | 90 | 0   | 90     | -90    | 90  | -90 |

FIG. 8

